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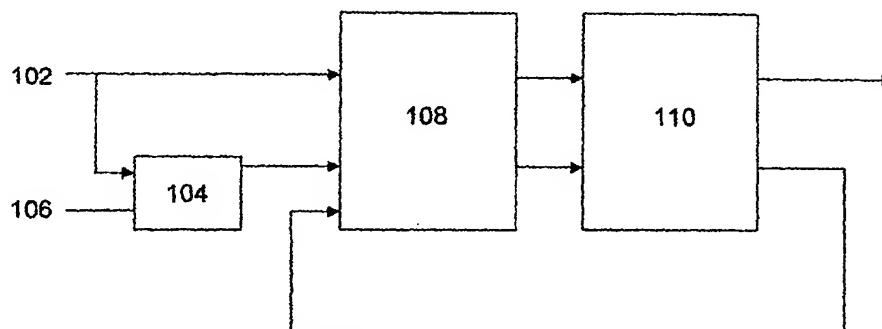
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(54) Title: SEGMENTATION OF A DIGITAL IMAGE



(57) Abstract: Video data is segmented by representing the pixel location, RGB values and other features such as motion vectors, as points in a multidimensional segmentation space. Initialized segments are represented as locations in the segmentation space and segment membership then determined by the distance in segmentation space from the data point representing the pixel to the location of the segment. The distance measure takes into consideration the covariance of the data, for the segment or for the picture.

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## INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

INSPEC, EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CASTAGNO R ET AL: "VIDEO SEGMENTATION BASED ON MULTIPLE FEATURES FOR INTERACTIVE MULTIMEDIA APPLICATIONS" IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, IEEE INC. NEW YORK, US, vol. 8, no. 5, 1 September 1998 (1998-09-01), pages 562-571, XP000779453 ISSN: 1051-8215 abstract sections C-F figure 8  --- -/--	1-31

☒ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	STEPHEN D. SCOTT: "Lecture 7: Clustering: Basic concepts" INTERNET, 'Online! 2001, XP002272720 Retrieved from the Internet: <URL:http://csce.unl.edu/{sscott/CSCE970-s pr01/slides/7:cluster-basic.pdf> 'retrieved on 2004-03-05! slide 11 ---	1-31
A	OHM J-R ET AL: "Feature-based cluster segmentation of image sequences" IMAGE PROCESSING, 1997. PROCEEDINGS., INTERNATIONAL CONFERENCE ON SANTA BARBARA, CA, USA 26-29 OCT. 1997, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 26 October 1997 (1997-10-26), pages 178-181, XP010253706 ISBN: 0-8186-8183-7 sections 2-3 -----	